

Atty Docket No. 2003-0056-01
USSN 10/609,223

IN THE SPECIFICATION:

Please amend the specification as follows:

Beginning on page 1 and continuing on page 2 please amend paragraph 3 as follows:

--However, as the requirements for more narrow critical dimension line features on, e.g. Ultra-Large-Scale-Integration ("ULSI") integrated circuit fabrication are ever increasing (decreasing critical dimensions), the demand for pure laser light at a particular ~~very narrow short~~ wavelength (Deep Ultraviolet - "DUV" and Extreme Ultraviolet - "EUV") and with purity defined by very narrowly controlled bandwidth around the center wavelength, the etalons used for such measurements are becoming much more susceptible to error due to the laser bandwidths required approaching the same bandpass as practical etalons in use. For, example on a recently released product of Cymer, Inc., the owner by assignment of the present application, the XLA 100, an on-board bandwidth meter utilized an etalon with a bandpass of about 0.12 pm and the laser provided an output generally between about 0.1 pm and 0.18 pm, discounting bandwidth resonance. The convolution then distorts the measured laser light, e.g., in bandwidth, in ways that now make or will soon make measurements of, e.g., the full width half maximum ("FWHM") insufficiently accurate for properly monitoring laser output.--

On page 3 please add the following paragraph:

-DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

The applicant has discovered that the coefficients A and C referenced above in this approximation can vary with changes in the detailed spectral shape of the source, these changes being anticipated with operating condition or age of source.

Turning now to Fig. 1 there is shown a schematic diagram of a laser bandwidth control system 10 according to an embodiment of the present invention. The system 10 may include, e.g., a laser 12, e.g., an excimer gas discharge laser, e.g., an XLA - 100 currently being sold by the assignee of the present application. The laser may emit a beam of light 14, e.g., nominally at 193.368 nm with a bandwidth of, e.g., 0.1 - 0.3 pm.--